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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/972,932	10/10/2001	Yuuichi Hashimoto	HITA.0108	4831
75	90 03/18/2003			
Stanley P. Fisher			EXAMINER	
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Falls Church, VA 22042-4503			ART UNIT	PAPER NUMBER
			2674	d
			DATE MAILED: 03/18/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	09/972,932	HASHIMOTO ET AL.			
Office Action Summary	Examiner	Art Unit			
	Kimnhung Nguyen	2674			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status					
1) Responsive to communication(s) filed on	·				
	s action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4)⊠ Claim(s) <u>1-7</u> is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-7</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or election requirement.					
Application Papers					
9) The specification is objected to by the Examiner.					
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.					
If approved, corrected drawings are required in reply to this Office action.					
12) The oath or declaration is objected to by the Examiner.					
Priority under 35 U.S.C. §§ 119 and 120					
13)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).					
a)⊠ All b)□ Some * c)□ None of:					
1.⊠ Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.					
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).					
a) The translation of the foreign language provisional application has been received.					
15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. Attachment(s)					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 2.	5) Notice of Info	nmary (PTO-413) Paper No(s) rmal Patent Application (PTO-152)			
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DETAILED ACTION

This application has been examined. The claims 1-7 are pending. The examination results are as following.

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1, 4 and 6 are rejected under 35 U.S.C. 103(a) as being unpatentable over

 Hebiguchi et al. (US patent 6,433,764) in view of JP Patent 05-019294 (cited by applicant).

 Hebiguchi et al. disclose in figures 1-3 that a liquid crystal display device comprising a
 liquid crystal (42); and two substrates (40, 41) opposed to each other with the Liquid
 crystal interposed in between; a plurality of drain signal lines (51) that cross the plurality
 of gate signal lines (50); pixel regions each enclosed by two gate signal lines adjacent to
 each other and two drain signal lines adjacent to teach other (see figure 22); a switching
 element (thin film transistor T) that is provided in each pixel region and driven by a
 scanning signal supplied from one of the two gate signal lines that define the pixel
 region; a pixel electrode that is provided in each pixel region and supplied via the
 switching element with a video signal form one of the two drain signal lines that define
 the pixel region (see figures 1-2, column 8, lines 18-46); an insulating film (58, see

column 8, lines 47-48). However, Hebiguchi et al. do not disclose a repair conductive

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layer formed in each of the plurality of drain signal lines when viewed perpendicularly with the insulating film interposed in between. JP (05-0192940) discloses a first conductive body piece (47) formed by superposing a source electrode and a drain electrode by placing a gate insulating film between them thereon (see abstract, see figure 1). It would have been obvious to one of ordinary skill in the art at the time the invention was made to implement the teachings of using the conductive body piece as taught by JP (05-0192940) in the device system of Hebiguchi et al. because this would be irradiated with a laser light and forming a bypass line on the side of a disconnection generated part.

3. Claims 2-3, 5 and 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hebiguchi et al. (US patent 6,433,764) and JP (05-0192940) as applied to claims 1, 4 and 6 above, and further in view of Komiya et al. (US patent 6,456,013).

Hebiguchi et al. and JP (05-0192940) disclose every feature of the claimed invention as disclosed above, excluding at least one of the plurality of drain signals having melt-formed located on both sides of the disconnected portion and penetrate the insulating film. Komiya et al. disclose in figure 5A that a melting through the laser irradiation of TFT (see column 9, lines 32-40). It would have been obvious to one of ordinary skill in the art at the time the invention was made to implement the teachings of using the melting through the laser irradiation as taught Komiya et al. in the device system of Hebiguchi et al. and JP (05-0192940) because this would form the active layer of a switching TFT and prevent generation of leak current in the switching TFT.

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Correspondence

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kimnhung Nguyen whose telephone number (703) 308-0425.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, RICHARD A HJERPE can be reached on (703) 305-4709.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D. C. 20231

Or faxed to:

(703) 872-9314 (for Technology Center 2600 only).

Hand-delivery response should be brought to: Crystal Park II, 2121 Crystal Drive, Arlington, VA Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.

Kimnhung Nguyen March 13, 2003

RICHARD HJERPE SUPERUSORY PATENT EXAMINER

TECHNOLOGY CENTER 2900